

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-19. (Canceled)

20. (Currently Amended) An apparatus for coating ~~the~~an outer peripheral surface of a pillar structure comprising:

a holder comprising a cam and a pedestal which holds the pillar structure there between in a substantially vertical direction and rotates together with the held pillar structure on an axis of the substantially vertical direction as a common rotating axis, wherein the holder comprising the cam and the pedestal which holds the pillar structure placed thereon~~there between~~ with one end thereof facing downward and has a pedestal rotating rotates the pedestal together with the held pillar structure on the axis of the substantially vertical direction as the common rotating axis;

a supplying and coating mechanism which supplies a coating material to the outer peripheral surface of the rotating pillar structure and coats the coating material on the outer peripheral surface;

a plate-like smoother ~~the one smoother~~, a longer side end portion of which is disposed at a given position with respect to the outer peripheral surface and which smoothes thea coating surface of the coating material supplied to and coated on the outer peripheral surfacesurface; and

a following mechanism which drives the smoother following the outer periphery of the pedestal and/or ~~a~~the cam so that the smoother is disposed at a given position with respect to the outer peripheral surface of the pillar structure,

wherein the smoother has a smoothing plate and a sheet-like elastic body provided at the longer side end portion of the smoothing plate on thea side of the pillar

structure, the elastic body is disposed so that it in such a manner that the elastic body moves so as to make an upper end portion of the elastic body contact contacts with the outer peripheral surface periphery of the cam and a lower end portion of the elastic body contacts the outer periphery of the pedestal at a time of supplying the coating material, thereby inhibiting an omission of coating at an upper end and a lower end of the outer peripheral surface of the pillar structure so as to prevent an occurrence of uncoated portions of the outer periphery of the pillar structure, and pillar structure,

wherein the coating material is supplied to and coated on the outer peripheral surface through the elastic body, the coating material is delivered by the moved elastic body from a nozzle from the supplying and coating mechanism to the outer peripheral surface of the pillar structure, the coating surface is smoothed between the outer peripheral surface and the elastic body and the sheet-like elastic body has a thickness of 1-5 mm and a width of 1-10 mm.

21. (Currently Amended) An apparatus for coating the outer peripheral surface of a pillar structure according to claim 20, wherein the smoother is disposed so that its longer a direction along a length of the smoother substantially coincides with the a central axis direction of the pillar structure and the elastic body constituting the smoother is disposed so that it the elastic body contacts with the outer peripheral surface of the pillar structure between both end faces of the pillar structure.

22. (Canceled)

23. (Currently Amended) An apparatus for coating the outer peripheral surface of a pillar structure according to claim 20, wherein the holder has the cam which is disposed on the a side of another end of the pillar structure placed and held on the pedestal and rotates on the axis of the substantially vertical direction as the common rotating axis.

24. (Currently Amended) An apparatus for coating the outer peripheral surface of a pillar structure according to claim 23, wherein ~~the~~an outer peripheral shape of the pedestal and that of the cam are substantially the same.

25. (Previously Presented) An apparatus for coating the outer peripheral surface of a pillar structure according to claim 20 which is further provided with a centering mechanism which holds the pillar structure and the pedestal and/or the cam in a given positional relation.

26. (Canceled)

27. (Currently Amended) An apparatus for coating the outer peripheral surface of a pillar structure according to claim 23, wherein the following mechanism has first and second following rollers which are disposed at a given distance from each other and move backward and forward following the outer periphery of the cam while contacting ~~with~~the outer periphery of the cam together with the supplying and coating mechanism and the smoother, and the first and second following rollers are disposed so that ~~the~~an angle formed by a straight line passing through the centers of the respective rollers and a tip portion of the smoother is a given angle.

28. (Currently Amended) An apparatus for coating the outer peripheral surface of a pillar structure according to claim 27, wherein the following mechanism further has third and fourth following rollers which move backward and forward following the outer periphery of the pedestal while contacting with the outer periphery of the pedestal together with the supplying and coating ~~smoother~~mechanism and the smoother and ~~the~~a rotating axis of the third following roller and that of the first following roller are common and ~~the~~a rotating axis of the fourth following roller and that of the second following roller are common.

29.-31. (Canceled)

32. (Currently Amended) An apparatus for coating the outer peripheral surface of a pillar structure according to claim 20, wherein the sheet-like elastic body has a hardness of 30-80.30-80 as measured in accordance with JIS K6253.

33. (Currently Amended) An apparatus for coating the outer peripheral surface of a pillar structure according to claim 20, wherein the elastic body comprises rubber or a sponge material.sponge.

34. (Currently Amended) An apparatus for coating the outer peripheral surface of a pillar structure according to claim 20, wherein the outer periphery of the pedestal and/or the cam comprise stainless steel or ceramics-a ceramic material.

35. (Currently Amended) An apparatus for coating the outer peripheral surface of a pillar structure according to claim 20, wherein the smoothing plate comprises stainless steel or ceramics-a ceramic material.

36. (Previously Presented) An apparatus for coating the outer peripheral surface of a pillar structure according to claim 20, wherein the shape of a section of the pillar structure cut along a plane perpendicular to the central axis of the pillar structure is circular or elliptical.

37. (Previously Presented) An apparatus for coating the outer peripheral surface of a pillar structure according to claim 20, wherein the pillar structure is a honeycomb structure comprising a plurality of cells which are flow paths for fluid.

38. (Previously Presented) An apparatus for coating the outer peripheral surface of a pillar structure according to claim 20, wherein the supplying and coating mechanism and the smoother can rotate together along the outer periphery of the pillar structure.

39. (Currently Amended) A method for coating the outer peripheral surface of a pillar structure using an apparatus for coating the outer peripheral surface of a pillar structure as recited in claim 20, wherein the method comprises the steps of

holding the pillar structure by the holder,  
supplying the coating material from the supplying and coating mechanism on  
the outer peripheral surface of the pillar structure and coating the coating material thereon  
while rotating the pillar structure and the holder on the axis of nearly the substantially vertical  
direction as a common rotating axis, and

smoothing the coating surface of the supplied and coated coating material  
between the outer peripheral surface of the pillar structure and the sheet-like elastic body.

40. (Currently Amended) A method for coating the outer peripheral surface of a  
pillar structure according to as recited in claim 20, wherein the following mechanism includes  
a pair of rollers positioned on substantially the same horizontal plane and pressing against the  
outer peripheral surface.